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Activity 3 - Queries and Reports Practice Questions

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The Vehicle Rental Company

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Task Scenario

- You have been asked to create a database for the East Berkshire Vehicle Rental Company
- Currently all records are stored on a spreadsheet
- The Company would like to be able to store information about their Rentals, Customers and Vehicles.
- The Company would like to be able to report on how their cars are Hired.

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Task Scenario

The database will record information about:

Customers and Customer Types.

Vehicles.

Rental Data.

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Task Scenario

- Cars can be Petrol, Hybrid or Electric.
- The company wants the flexibility to add new cars and customers at a later date.
- Customers can on a Platinum, Gold or Standard discount model.
- Each discount allows a different percent discount.
- If a vehicle rental does not have a return date, that means the customer still has the vehicle out for hire.
- Hire costs are for each full day of hire.

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The Data

Vehicle ID	Vehicle Type	Vehicle Make	Hire Cost	Customer ID	Customer Name	Customer Postcode	Discount ID	Discount Type	Discount	Date Hired	Date Returned
1	Petrol	Ford	£75	1	Smith	RG47BP	1	Platinum	25%	20/09/2020	24/09/2020

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Queries

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Query 1

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Create a query that shows an alphabetical list of all Vehicles sorted A – Z by their make.

- This is a simple single table query
- Select Vehicle Type and Make from the Vehicle Table
- Show both columns
- Add ‘ascending’ to the VehicleMake sort row

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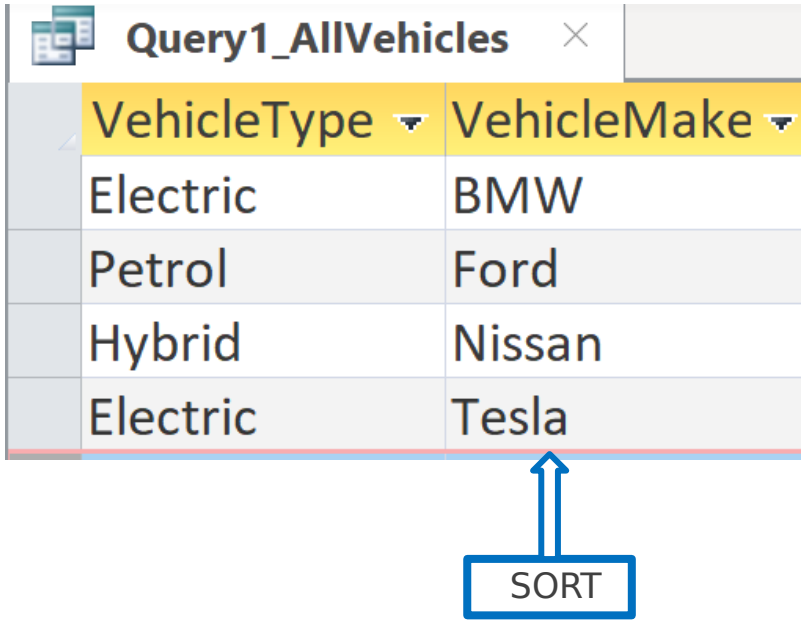
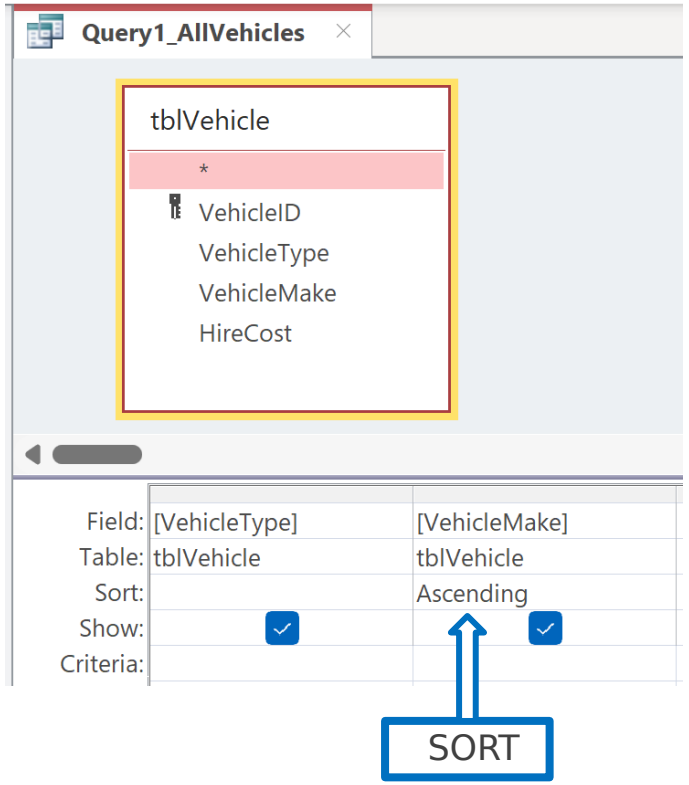
Create a query that shows an alphabetical list of all Vehicles sorted A – Z by their make.

QUERY RESULTS



QUERY DESIGN



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Reports

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Report 1

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Report 1 – Query Information

This report runs from a simple single table query

This needs to be created first

Use the report wizard to get this built quickly

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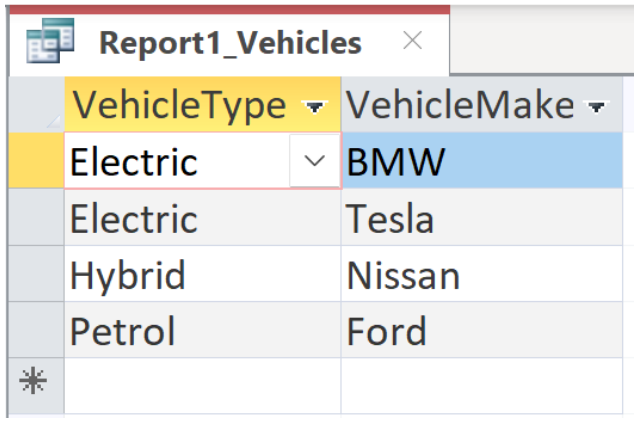
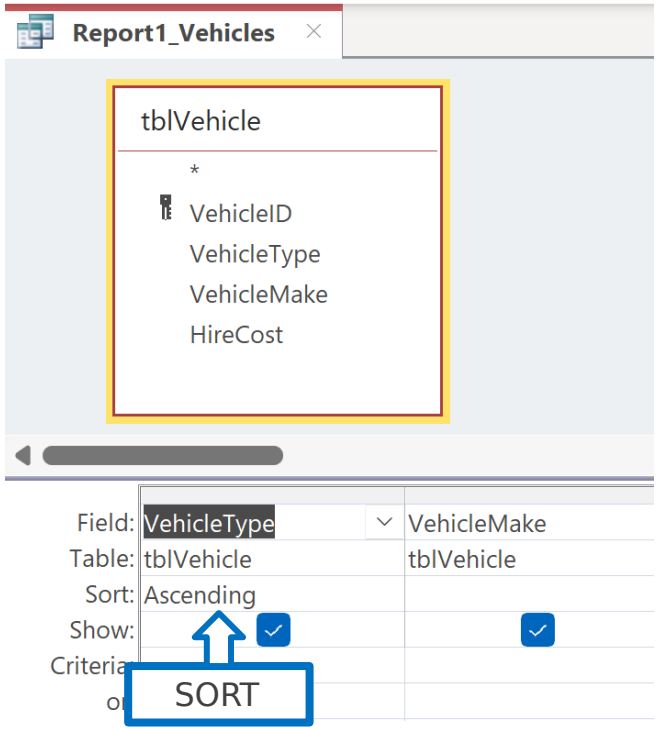
Create a report that shows the list of Vehicle Makes and Types

QUERY DATASHEET VIEW



QUERY DESIGN VIEW



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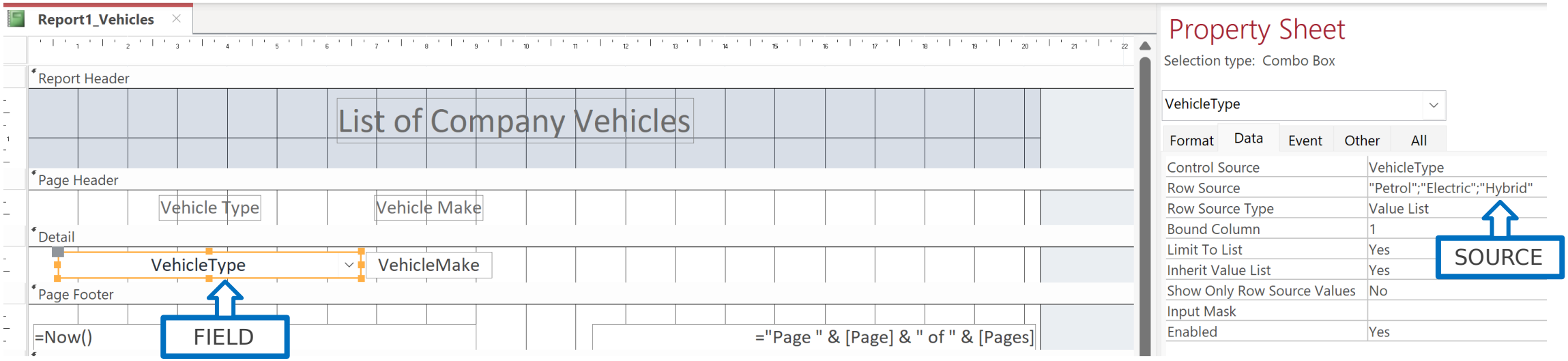
Report Design View



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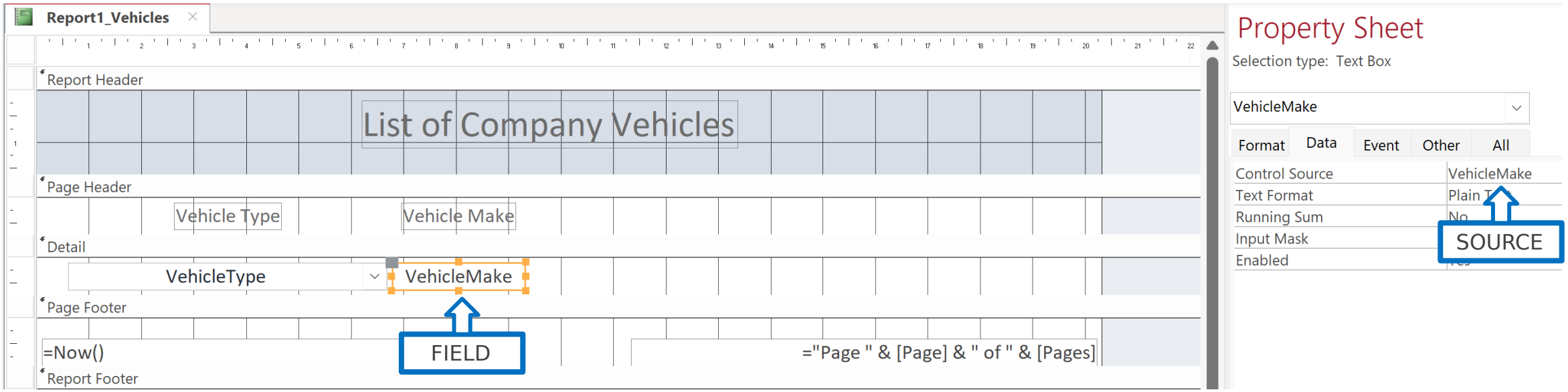
Report Design View



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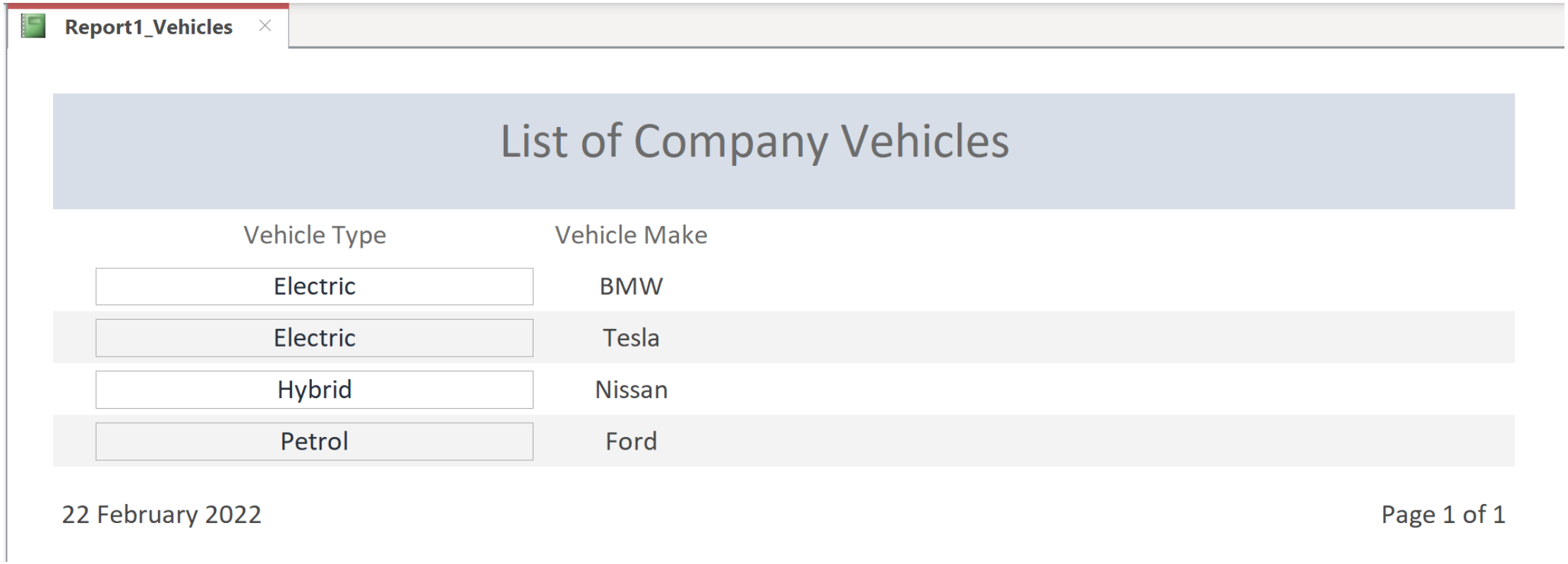
The Actual Report



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Glossary of Terms

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Glossary – Relational Database 1

Key Term	Definition
Attribute	Another name for a Column (or Field) in a Table in a Database.
Cardinality	A measure of how unique values within a column are. A Primary Key column would have High Cardinality, an ‘IsStudent’ column would have Low Cardinality.
Domain	
Entity	
Relation	
Relational Database	
Tuple	

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